

### Critical Needs for PM Monitoring Data

- Data Needed for Use in Both Exposure and Epidemiological Health Studies
- Data Needed for Planning Purposes & Provide Conceptual Understanding of PM Formation
- Data Needed to Relate to Visibility Degradation

### Planning & Conceptual Model Needs

- Representatives of Monitors for Fine and Coarse Fractions-including species
- Movement to Non-filter Type of Monitoring
  - short time frame-down to one hour if possible
  - “real time” vs. wait for filter analysis
- Concurrent Met. & Gaseous Measurements at Surface and Aloft (If Possible)
- Source Profiles Which Reflect What is Being Monitored in Ambient

### Health Needs

- Relationship Between Community Monitors, Indoor Monitors & Personal Monitors for:
  - PM Coarse Species
  - PM Fine Species-Full Speciation
  - Short Time Frame-3 or 4 Hours
- Specialized Monitoring for Epi Studies
  - size fractionation and speciation by size
  - concurrent meteorological information
  - concurrent gaseous measurements

### Visibility Need

- Correlation Between Visibility & PM Fine-Surrogate Measurement Technique
- Short Term Size Segregated Speciated Measurements to Improve Extinction Efficiency Correlation

### Summary

- Non Filter Alternatives
- Short Term to “Real Time” Measurements
- Full Speciation, and If Possible Speciation by Size
- Concurrent Gaseous and Met Measurements
- Correlation Between Indoor, Outdoor and Personal Monitors